

Michigan Questionnaire Documentation System (MQDS)

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Center

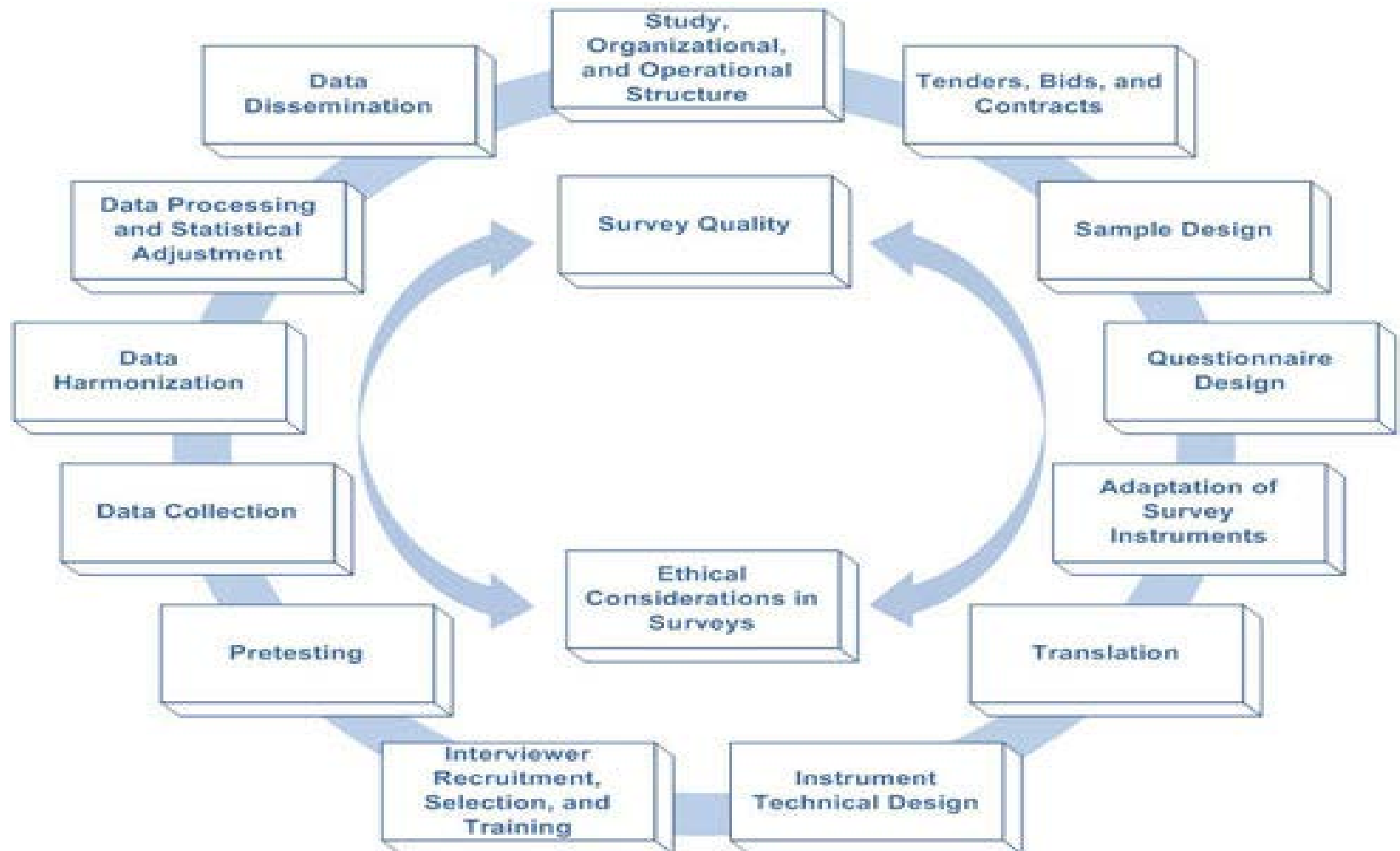
North American DDI Conference

April 2-3, 2013

Agenda

- MQDS Background
- MQDS current design
- Demo

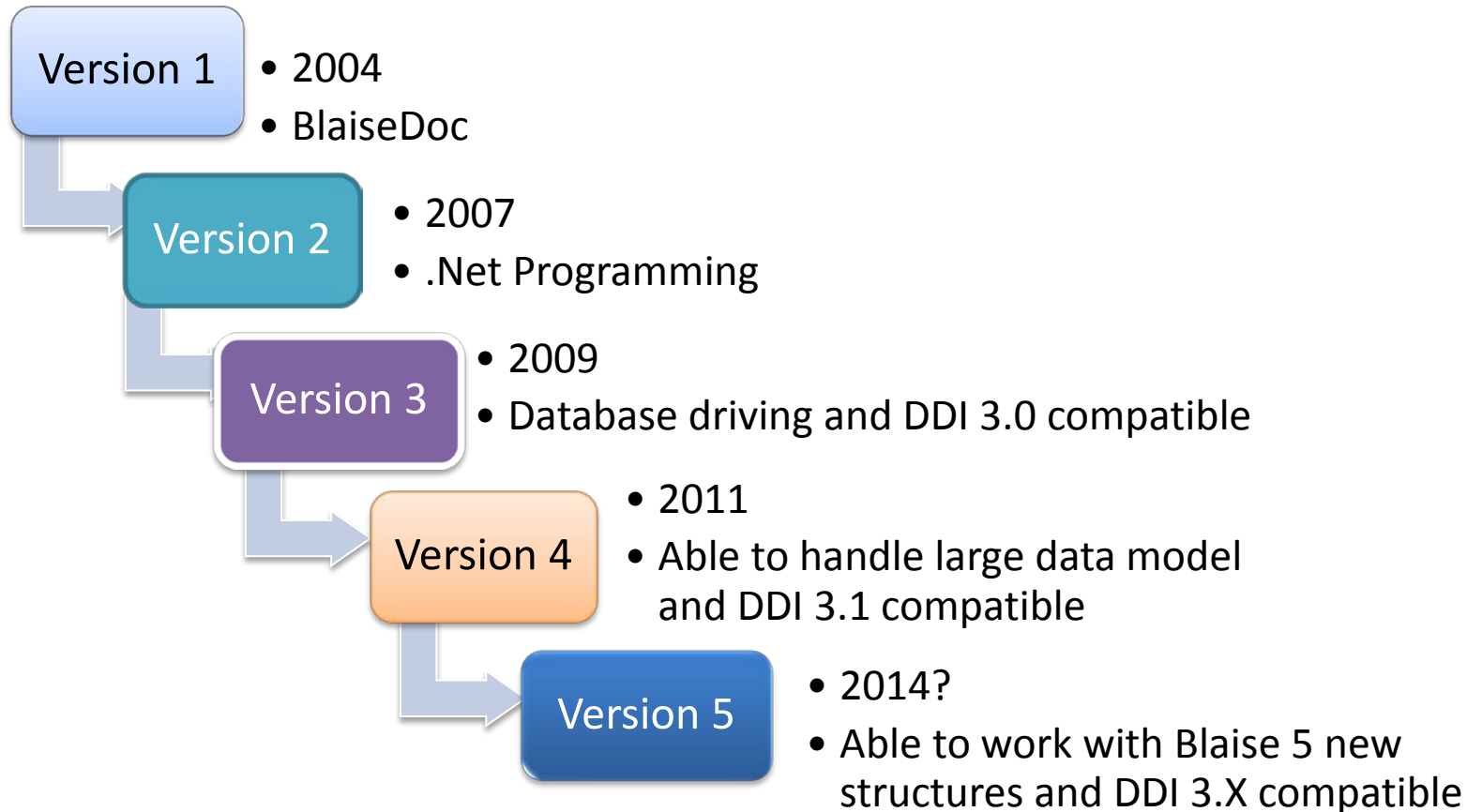
Survey Lifecycle



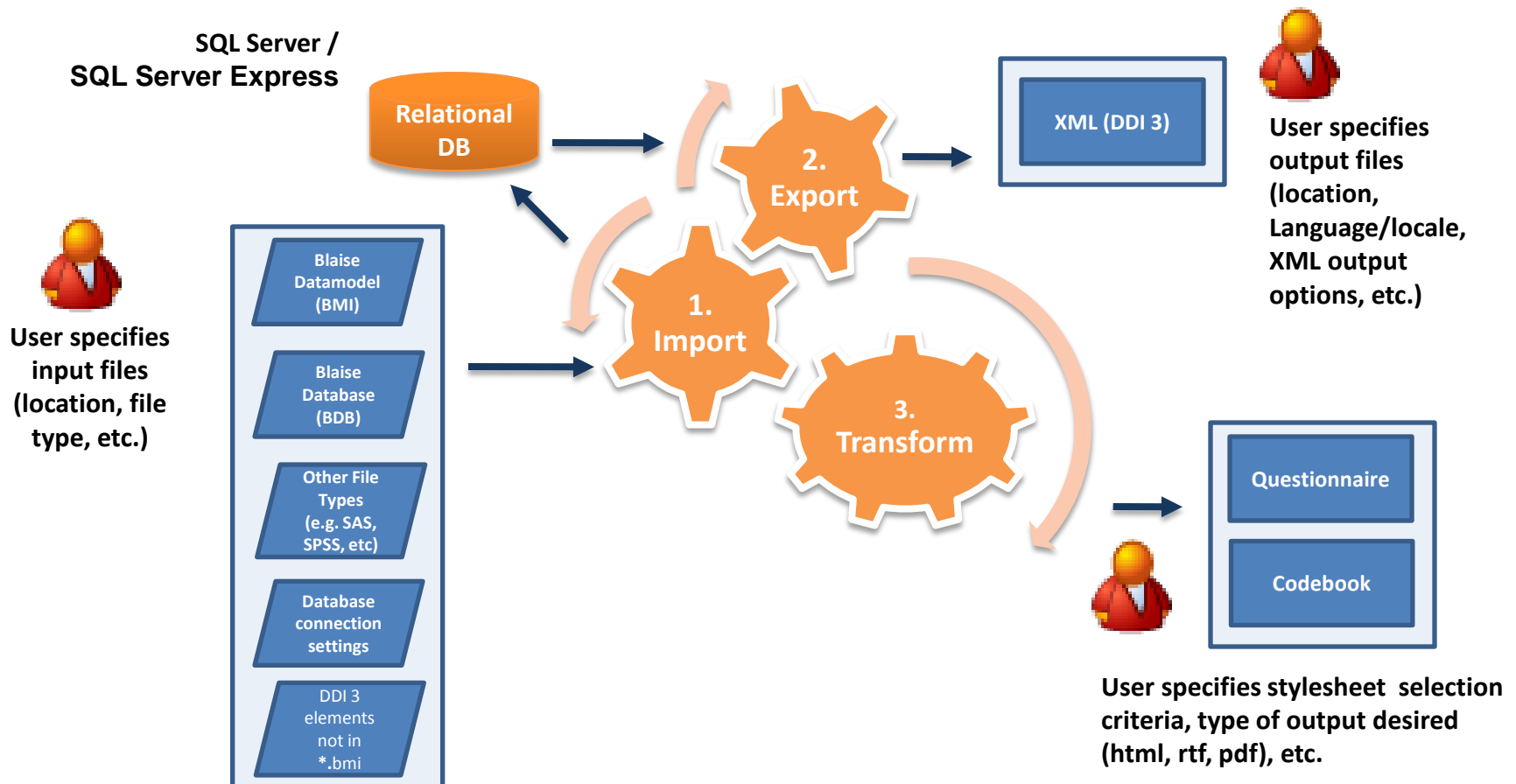
What is MQDS?

- The Michigan Questionnaire Documentation System (MQDS) was designed to extract comprehensive metadata from **Blaise** survey instruments and render it as an eXtended Markup Language (XML) document using the Data Documentation Initiative (DDI) standard.

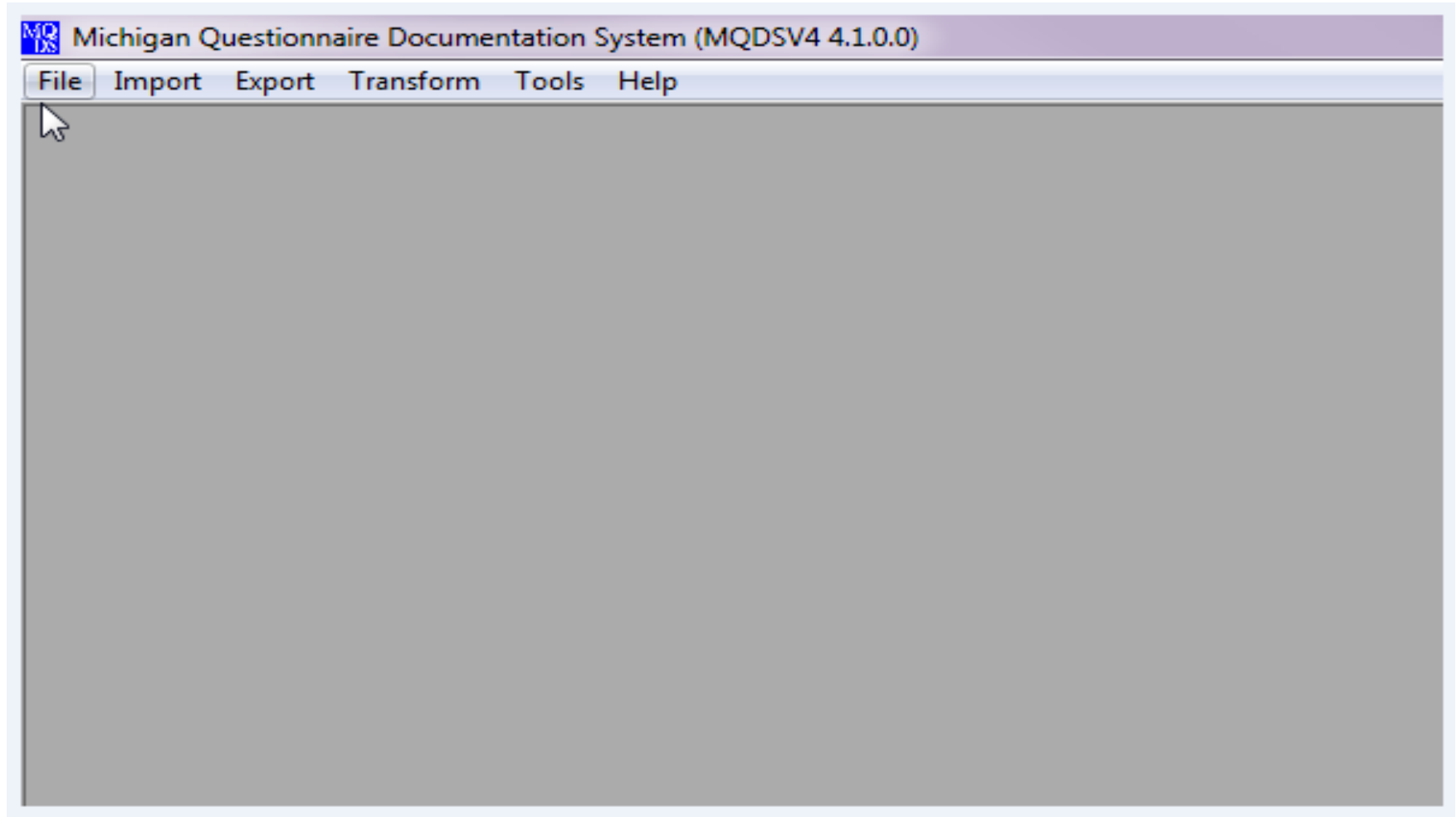
MQDS Development Timeline



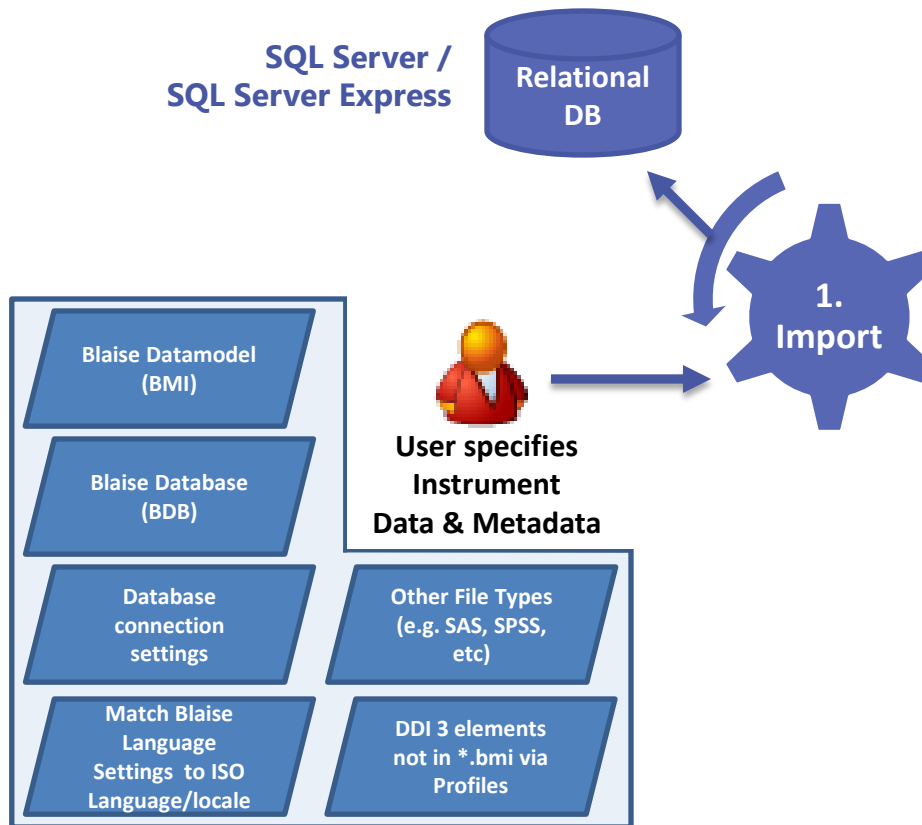
MQDS V4: Import-Export-Transform (IET) Process Model



MQDS Main Menu



1. Import



Import Instrument Data and Metadata

Blaise Prepared Datamodel

* Select Datamodel (*.bmi)

Language Mapping

Summary Statistics and Frequencies

☐ Import Summary Statistics and Frequencies

☒ Blaise database (*.bdb;*.boi) ☐ SAS dataset (*.xml)

* Data file (*.bdb;*.boi;*.xml)

QxQs and Support Database

Help File (*.html)

Support DB (*.mdb)

Instance Information

* Instance ID: ☒ Let MQDS decide

* Description:

Profile Creation & Selection

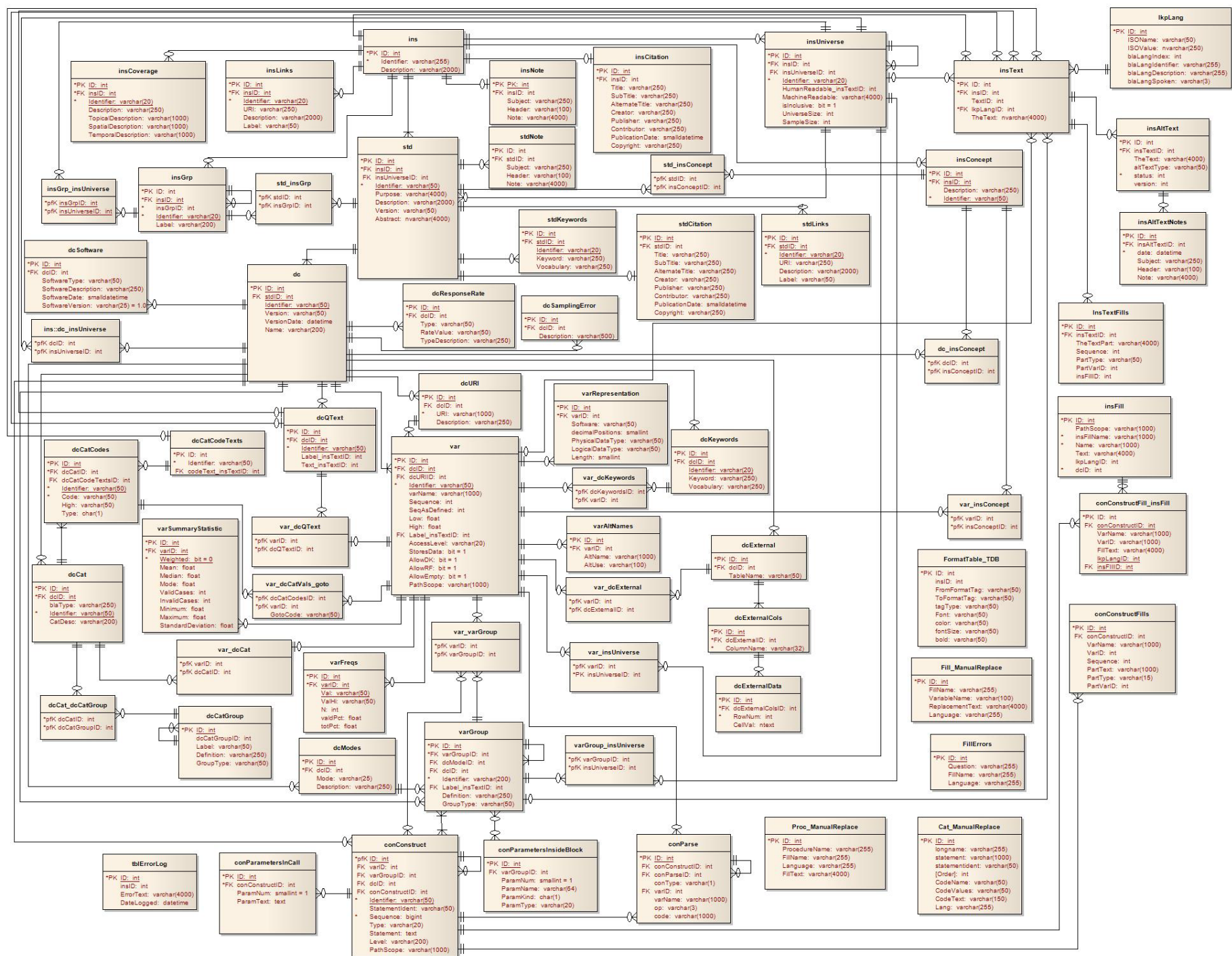
* User profile (*.xml) New ...

* Instance profile (*.xml) New ...

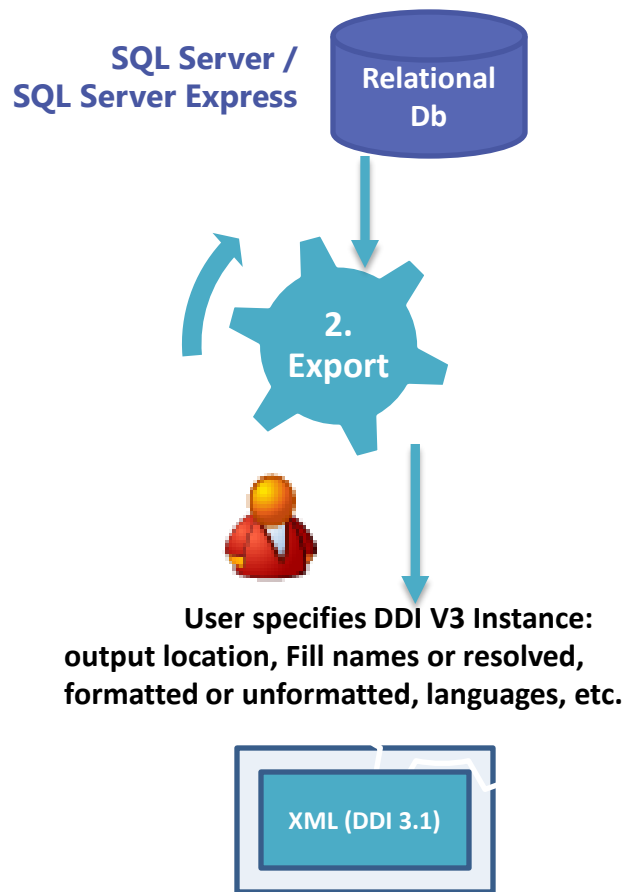
Denotes mandatory fields

Import Instrument Data and Metadata

Next Exit



2. Export

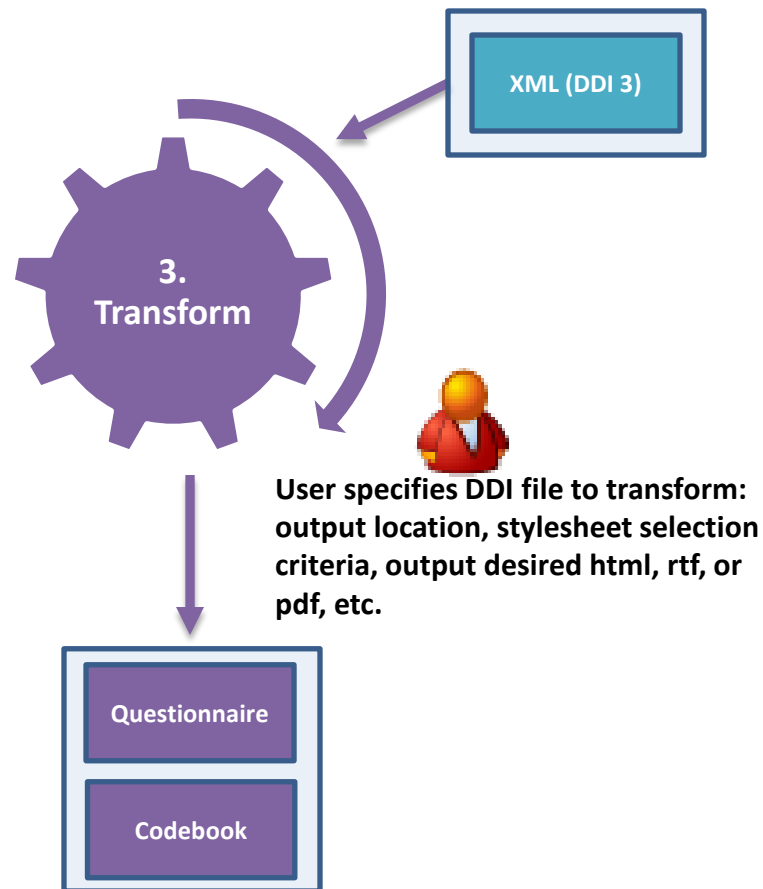


The screenshot shows the "Export DDI V3 XML Instance" dialog box. It has a title bar with the text "Export DDI V3 XML Instance" and standard window controls. The dialog is divided into several sections:

- SQL Server Information:** Contains fields for "Server Name" (set to "(local)\sqlexpress"), "Database or Catalog" (set to "MQDSV4"), and a "Test Connection" button. There are two radio buttons: "Use Windows NT Integrated Security" (selected) and "Use a Specific User Name and Password". Below these are fields for "User name:" and "Password:".
- Select Output Options:** This section is divided into three sub-sections:
 - Instrument Fills:** Contains two radio buttons: "Export Fill Name" and "Export Fills Based on Rules" (selected).
 - Text Formatting:** Contains three radio buttons: "Export Formatted" (selected), "Export Unformatted", and "Export Blaise Syntax". There is also a checkbox for "RTF Specific".
 - Language and Sections:** Contains two checkboxes: "All Languages" and "All Sections" (checked).
- Select Output XML:** Contains a text field for the output location and a browse button (three dots).

At the bottom right, there are "Next" and "Exit" buttons. The status bar at the bottom left says "Export DDI V3 Instance".

3. Transform



Transform DDI V3 XML Instance

Select Output Folder

Select DDI V3 XML File

Select Output Folder

☒ Use default transformation settings ☐ Modify transformation settings ☐ Load saved settings

Export Format

☒ HTML ☐ RTF ☐ PDF

Next Exit

Transform DDI V3 Instance

Style-sheet Modification

Transform DDI V3 XML Instance

Transformation Options

Display Options	Question Display	Logic Display
<input type="checkbox"/> Select All	<input type="checkbox"/> Select All	<input type="checkbox"/> Select All
<input checked="" type="checkbox"/> Stylesheet name	<input checked="" type="checkbox"/> Variable/Field Name	<input checked="" type="checkbox"/> GoTos / Internal Routing
<input checked="" type="checkbox"/> Question Index	<input type="checkbox"/> Variable/Field Tag	<input checked="" type="checkbox"/> Interviewer Checkpoints
<input checked="" type="checkbox"/> ASK Questions	<input type="checkbox"/> Question Description	<input checked="" type="checkbox"/> Loops
<input checked="" type="checkbox"/> KEEP Questions	<input checked="" type="checkbox"/> QuestionText	<input checked="" type="checkbox"/> Lookups
<input checked="" type="checkbox"/> SHOW Questions	<input checked="" type="checkbox"/> Code Value (and Universe)	<input type="checkbox"/> Explanation Next to Logic
<input type="checkbox"/> Universe - Embedded	<input checked="" type="checkbox"/> Code Text (and Universe)	
<input type="checkbox"/> Universe - Hyperlinked	<input type="checkbox"/> Code Name (and Universe)	
<input checked="" type="checkbox"/> Roster/HHL		HTML Links Display
<input checked="" type="checkbox"/> Preload Variables		<input type="radio"/> Underlined
<input checked="" type="checkbox"/> Computed Variables		<input checked="" type="radio"/> Not Underlined
<input checked="" type="checkbox"/> Procedure sections		HTML Link Color
<input type="checkbox"/> Help		<input type="radio"/> Black
<input type="checkbox"/> Links from Support Database		<input checked="" type="radio"/> Blue
		<input type="radio"/> Green
		<input type="radio"/> Red

Stylesheet Help

Back Next Exit

Transform DDI V3 Instance

HTML output example

Michigan Questionnaire Documentation System
(C:\Program Files (x86)\MQDSV4\Support\QNAireDd3.xsl)

SCA

Select a section

User Guide

Variable List

Variable Group:

Eng

SCA

Section_PR

Section_CS

Section_CS2

Section_A

Section_AA

Section_CA

Section_E

Section_F

Section_P

Section_R

Section_Z1

Section_Z2

Section_Z3

Section_Z

Section_CD

JumpSection

Restart

Suspend

Spa

SCA

Section_PR

Section_CS

Section_CS2

Section_A

Section_AA

Section_CA

Section_E

Section_F

Section_P

Section_R

EmpStat

We would like to know about your current employment situation as of today -- are you currently employed, self-employed, sick or on maternity leave, a homemaker, a full-time or part-time student, or something else?

•ENTER all that apply

•Press [Space] or [-] to separate responses

☐ 1 Employed GOTO GIT.Occupation

☐ 2 Self-employed GOTO GIT.Occupation

☐ 3 Looking for work

☐ 4 Permanently disabled

☐ 5 Temporarily laid off

☐ 6 Unemployed

☐ 7 Retired

☐ 8 Sick or on maternity leave

☐ 9 Homemaker

☐ 10 Student

☐ 11 Other - specify

☐ DK DK

☐ RF RF

Maximum number of mentions: 11

Codebook Output Example

D9.

Earlier in the interview, you mentioned having periods of time that lasted several days or longer when you lost interest in most things like work, hobbies, and other things you usually enjoy.

Did you ever have a period of this sort that lasted most of the day, nearly every day for two weeks or longer?

- ☐ 1 YES
- ☐ 5 NO

Universe

BLN_HHL.HU9 > 0

BLSCREENING.SC19 = 1

((BLSCREENING.SC21 = 1) OR (BLSCREENING.SC22 = 1)) OR (BLSCREENING.SC23 = 1)

D0 = 3

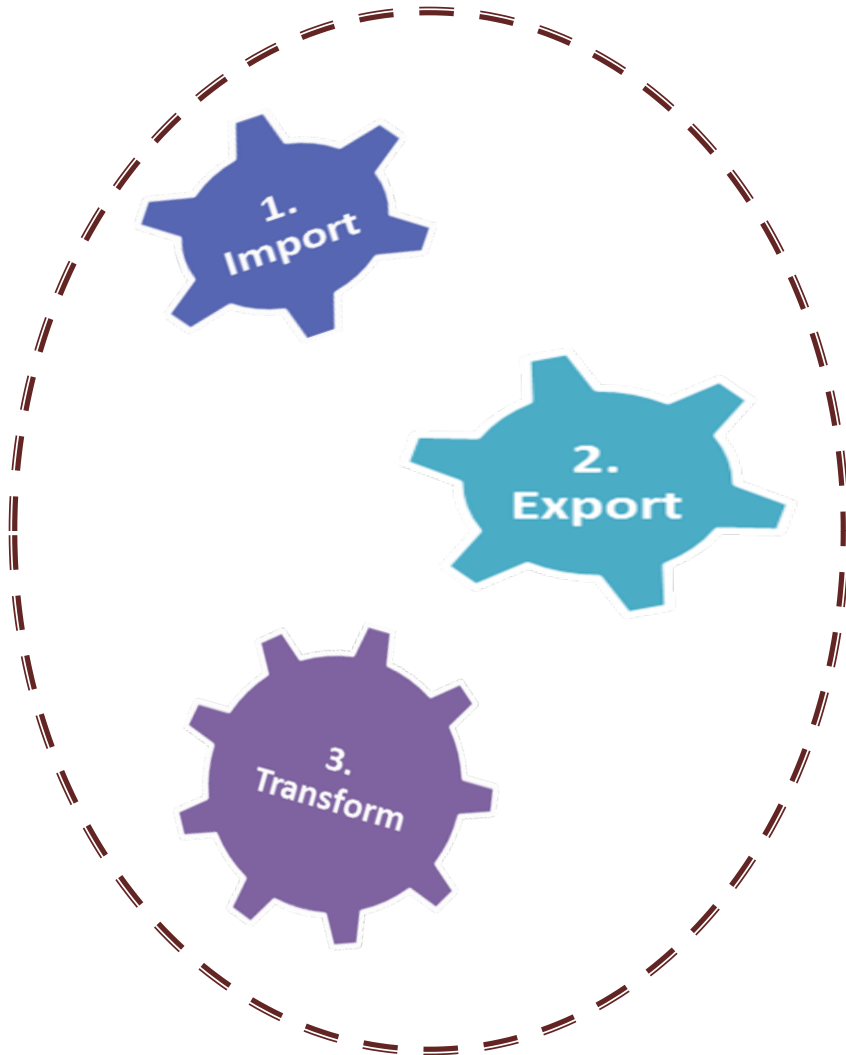
Value	Label	Frequency	Valid Percent	Total Percent
1	YES	68	29.96%	00.73%
5	NO	159	70.04%	01.71%
.	Missing	9055	-	97.55%

Disclaimer: Frequencies displayed above are not weighted.

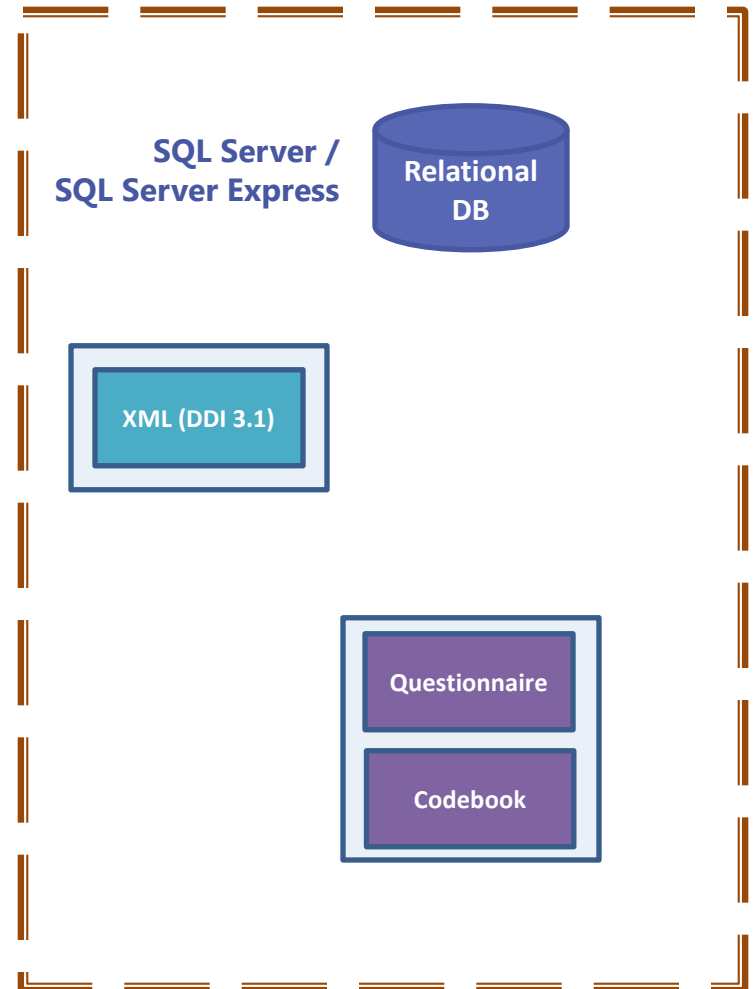
- **Missing Data Codes:** . (Missing)
- **Total Cases:** 9282

MQDS Summary

Three Process



Three Products



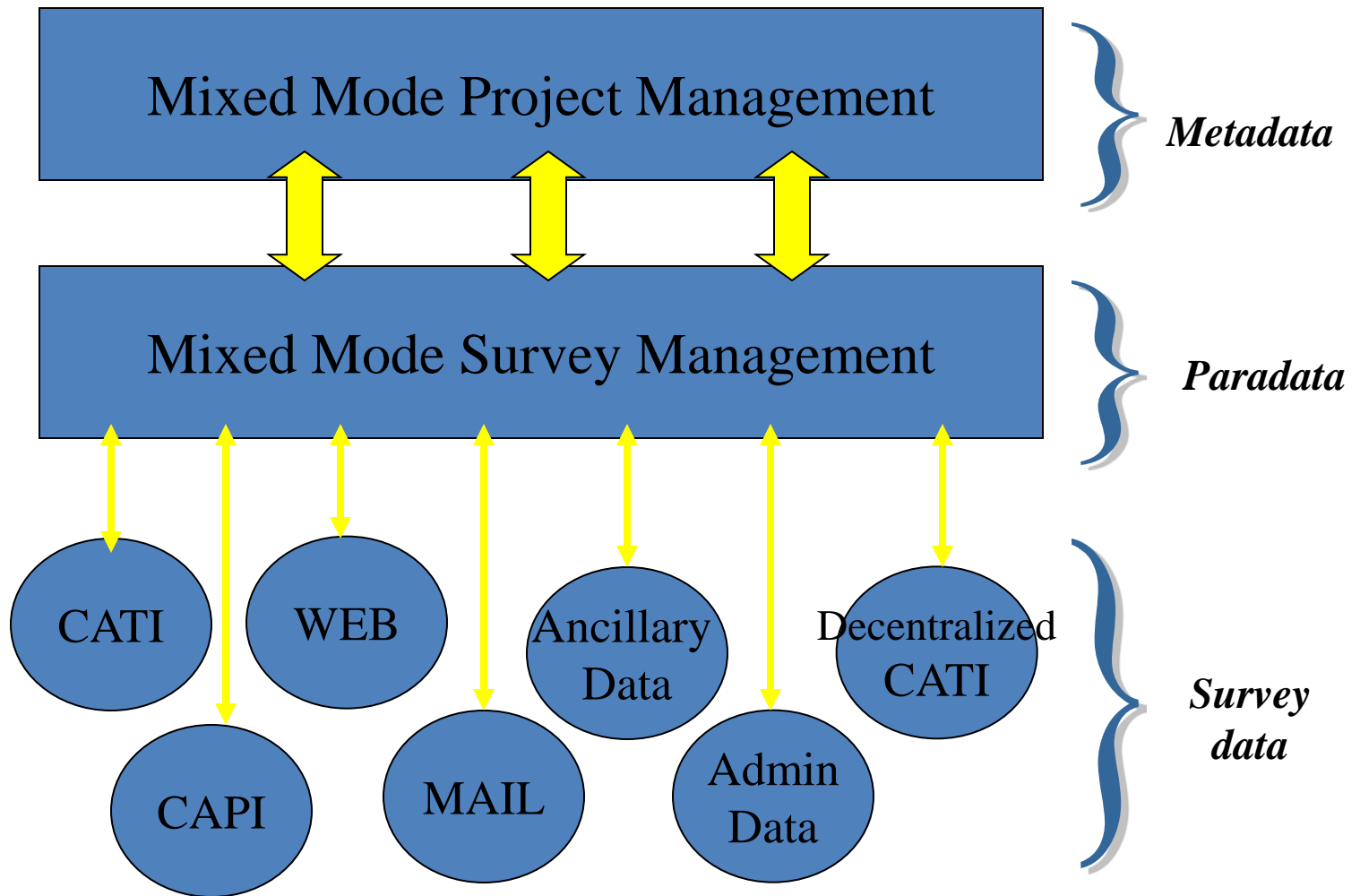
MQDS usage

- **Free** to all Blaise community users
- Questionnaire design
- Questionnaire documentation
- Quick data transformation (BDB format to SAS, SPASS or SQL DB format)
- Creating interviewers' training materials
- Codebook with universe info
- [\(CPES\)](#)

MQDS Limitations

- Complex Blaise questionnaire [roster structure](#)
- Blaise alien router ([external program](#))
- [Paradata](#)
- Not a tool for Survey life circle documentation yet....

Where we are going... and DDI for...



By the way, here is the “hot” topic in my world..... Data Collection Possibilities with Mobile Technologies

Phone

Link to online survey

Self administered
survey app

App based data
collection

SMS / MMS

Email

Reminders to complete
via phone, email or SMS



GPS Location Check in

Bar code scanner

Social Data Capture

Audio Recording/Oral
Instructions or Training

Bluetooth

Visual Data Capture

Accelerometer

Thank you!

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